

**Hytek Industries****Safety Data Sheet  
Chemolube H Hydraulic Fluid**

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**1. Identification****Product Identifier used on the label****Chemolube H Hydraulic Fluid****Other means of identification**

Chemical family: Polymer, preparation

**Recommended use of the chemical and restriction on use**

Recommended use: Chemical

Restrictions on use: None

**Details of the supplier of the safety data sheet**Company:

Hytek Industries

P.O. Box 56

Oceanport, NJ 07757 USA

Phone: 732-229-5730

Email: [info@hytekind.com](mailto:info@hytekind.com)**Emergency telephone number**CHEMTREC 1-800-424-9300

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**2. Hazards Identification****According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200**

<b>Physical:</b>	<b>Health:</b>
None	Acute Toxicity Category 4 (Oral) Eye Irritant Category 2 Skin Sensitizer Category 1 Specific Target Organ Toxicity – Repeat Exposure Category 2 Carcinogen Category 2

**Label Elements**

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**Signal Word:**

Warning

**Hazard Statement:**

H302 Harmful if swallowed

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H373 May cause damage to the kidney, liver and blood through prolonged or repeated ingestion.

**Precautionary Statements (Prevention):**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe mist or vapor.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves, clothing and eye protection.

**Precautionary Statements (Response):**

P308+P313 IF exposed or concerned: Get medical attention.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P333 + P313 If skin irritation or rash occurs: Get medical attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical attention.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

P330 Rinse mouth

**Precautionary Statements (Storage):**

P405 Store locked up.

**Precautionary Statements (Disposal):**

P501 Dispose of contents and container in accordance with local, regional and national regulations.

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**3. Composition/ Information on Ingredients**

Chemical Name	CAS Number	Content w/w
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Diethylene Glycol	111-46-6	75-95%
Diethanolamine	111-42-2	<3%
Sodium 2-mercaprobenzothiazole	2492-26-4	<1%

The exact concentration has been withheld as a trade secret.

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**4. First-Aid measures**

**Eye:** Flush eyes with plenty of water for at least 15 minutes while holding the eyelids apart. Get medical attention if irritation develops or persists.

**Skin:** Wash skin thoroughly with soap and water for several minutes. Get medical attention if irritation or rash develops or persists. Remove contaminated clothing and launder clothing before re-use.

**Ingestion:** Seek immediate medical attention for large ingestions. Call local poison control center or go to an emergency department. Never give anything by mouth to or induce vomiting in an unconscious or drowsy person.

**Inhalation:** Remove person to fresh air and keep comfortable for breathing. If irritation develops or persists, get medical attention.

**Most important Symptoms:** Causes serious eye irritation, redness and tearing. May cause skin and respiratory irritation. Ingestion may cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, malaise, blurring of vision, irritability, back pain, decrease in urine output, kidney failure, and central nervous system effects. May cause an allergic skin reaction. May cause damage to the kidney, liver and blood through prolonged or repeated ingestion. Diethanolamine is suspected of causing cancer. Risk of cancer depends on level and duration of exposure.

**Indication of immediate medical attention/special treatment:** Immediate medical attention is required for large ingestions.

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**5. Fire-fighting Measures****Suitable (and Unsuitable) Extinguishing Media:**

Water spray, dry powder and foam.

**Special hazards arising from the substance or mixture:**

Decomposition will produce oxides of carbon.

**Special Protective Equipment and Precautions for Fire-Fighters:**

Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water spray.

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**6. Accidental release measures****Personal Precautions, Protective Equipment, and Emergency Procedures:**

Avoid contact with eyes, skin and clothing. Do not breathe vapor or mist. Wear appropriate personal protective equipment as described in section 8.

**Environmental precautions**

Avoid releases to the environment. Report releases to the appropriate authority.

**Methods and material for containment and cleaning up**

**Contain and collect with an inert absorbent** and transfer to a suitable container for disposal. Clean spill area with water.

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**7. Handling and Storage****Precautions for safe handling**

Avoid breathing vapors or mists. Use adequate ventilation. Wash exposed skin thoroughly after use. Keep containers closed when not in use. Use with good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well-ventilated area away from incompatible materials. Keep away from excessive heat and ignition sources. Store away from oxidizers.

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**8. Exposure Controls/Personal Protection****Exposure Guidelines:**

Diethylene Glycol	None Established
Diethanolamine	0.2 ppm TWA (inhalable fraction and vapor) OSHA PEL
Sodium 2-mercaprobenzothiazole	None Established

**Engineering Controls:** Use with adequate general or local exhaust ventilation to maintain exposure below occupational exposure limits.

**Respiratory Protection:** In operations where exposure limits are exceeded, an approved respirator with organic vapor cartridges or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

**Skin Protection:** Impervious gloves are required if contact is possible.

**Eye Protection:** Chemical safety goggles should be worn where contact is possible.

**Other:** Impervious coveralls, apron and boots are required if needed to avoid skin contact and contamination of personal clothing. An eye wash should be available in the immediate work area.

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**9. Physical and Chemical Properties**

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**Appearance and Odor:** Light straw to amber liquid with a glycol odor.

<b>Physical State:</b> Liquid	<b>Odor Threshold:</b> Not established
<b>Vapor Density:</b> Not available	<b>Initial Boiling Point/Range:</b> >100°C (212°F)
<b>Solubility In Water:</b> Complete	<b>Vapor Pressure:</b> ~1
<b>Relative Density:</b> 1.119	<b>Evaporation Rate:</b> Nil
<b>Melting/Freezing Point:</b> <0°C (32°F)	<b>pH:</b> 9.25-9.45 @ 25°C (77°F)
<b>VOC Content:</b> Not available	<b>Octanol/Water Coefficient:</b> Not available
<b>Solubility:</b> Not determined	<b>Decomposition Temperature:</b> Not available
<b>Viscosity:</b> Not determined	<b>Flammability (solid, gas):</b> Not available
<b>Flashpoint:</b> 137.8°C (280°F)	<b>Autoignition Temperature:</b> Not determined
<b>Flammable Limits: LEL:</b> Not available <b>UEL:</b> Not available	

**10. Stability and Reactivity****Reactivity**

Not reactive under normal storage and handling conditions

**Chemical stability**

Stable under normal storage and handling conditions

**Possibility of hazardous reactions**

None known.

**Conditions to avoid**

Avoid extreme temperatures.

**Incompatible materials**

Strong acids, strong bases, strong oxidizing-agents and reducing agents.

**Hazardous decomposition products**

Decomposition may release oxides of carbon.

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**11. Toxicologist information****Primary routes of exposure****HEALTH HAZARDS:**

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**Eye:** May cause serious irritation, tearing, and redness. Corneal damage is unlikely.

**Skin:** May cause irritation. May cause an allergic skin reaction.

**Ingestion:** Ingestion may cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, malaise, blurring of vision, irritability, back pain, decrease in urine output, kidney failure, and central nervous system effects.

**Inhalation:** Prolonged contact can cause nausea, headache and vomiting.

**Sensitization:** This product is classified as a skin sensitizer.

**Chronic:** Diethylene glycol: In a long term feeding study, rats given in 4% by weight in food showed an increase in mortality rates, a marked depression of growth rate, bladder stones, severe kidney damage, and moderate liver damage.

**Carcinogenicity:** Diethanolamine is listed by IARC as a group 2B carcinogen (possible human carcinogen). None of the other components present are listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA.

**Germ Cell Mutagenicity:** None of the components of this product are suspected to cause germ cell mutagenicity.

**Reproductive Toxicity:** None of the components are classified as reproductive toxins.

**Numerical Measures of Toxicity:**

Product ATE: Oral LD50: 528 mg/kg (calculated using the point estimate for diethylene glycol)

Diethylene Glycol: Oral rat LD50 - 12,565 mg/kg; Skin rabbit LD50 – 11,890 mg/kg

Diethanolamine: Oral rat LD50: 1100 mg/kg, inhalation rat LC0: 3.35 mg/L/4 hr

Sodium 2-mercaprobenzothiazole: Oral rat LD50: 2100 mg/kg, dermal rabbit LD50 > 7940 mg/kg

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**12. Ecological Information****Toxicity**

Diethylene Glycol: *Lepomis macrochirus* (Bluegill fish) LC50: 1,000 mg/L/96 hr

Diethanolamine: *Pimephales promelas* LC50: 1370 mg/L/96 hr

Sodium 2-mercaprobenzothiazole: *Oncorhynchus mykiss* LC50: 0.73 mg/L/96 hr

This product is not expected to cause harm to the environment.

**Persistence and degradability**

Diethylene Glycol: Readily biodegradable -90% in 28 days

Diethanolamine: Readily biodegradable - 50% in 28 days

Sodium 2-mercaprobenzothiazole: Not readily biodegradable - 2% in 35 days

**Bioaccumulative potential**

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No data available.

**Mobility in soil**

No data available.

**Other Adverse Effects**

None known

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**13. Disposal considerations****Waste disposal of substance:**

Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

**Container disposal:**

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

**RCRA:** None

**14. Transport Information**

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
<b>DOT</b>	None	Not Regulated	None	None	None
<b>ADR/RID</b>	None	Not Regulated	None	None	None
<b>IMDG</b>	None	Not Regulated	None	None	None
<b>IATA/ICAO</b>	None	Not Regulated	None	None	None

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**15. Regulatory Information****U.S. Federal Regulations**

**Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):** This product has an RQ of 3,333 lbs (based on the RQ of Diethanolamine of 100 lbs present at <3%). Some states have more stringent reporting requirements. Report all spills in accordance with local, state and federal regulations.

**Toxic Substances Control Act (TSCA):** All of the components of this product are listed.

**Superfund Amendments and Reauthorization Act (SARA) Title III Information:**

**SARA Section 311/312 (40 CFR 370) Hazard Categories:** Acute Health, Chronic Health

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**This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):** Diethanolamine <3%

**State Regulations**

**California:** This product contains substances known to the state of California to cause cancer and/or reproductive toxicity.

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**16. Other Information****NFPA Hazard codes:**

**Health: 2    Fire: 1    Reactivity: 0    Special:**

**HMIS III rating**

**Health: 2\*    Flammability: 1    Physical hazard: 0**

**\*Chronic Health Hazard**

**Date of current revision:** 6/13/16

**Revision History:** Updated format and all sections to comply with OSHA Hazcom 2102 regulations.

**Date of previous revision:** 7/17/05

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